

Cementing and Mud Details
Gruy Petroleum Management Co.
Buffalo Valley 8 State No. 1
Unit Letter M Section 8
T15S - R28E Eddy County, NM

30-005-63802

1. Cementing & Setting Depth:

13 3/8" Surface

Set 400' of 13 3/8" H-40 48# ST&C casing. Cement with 475 Sx. Of Class "C" cement + additives, circulate cement to surface.

9 5/8" Intermediate

Set 1800' of 9 5/8" J-55 40# LT&C casing. Cement lead with 680 sx Class POZ/C Cement + additives and tail with 200 sx Class "C" + additives, circulate cement to surface.

5 1/2" Production

Set 9500' of 5 1/2" P-110 17# LT&C casing. Cement in two stages, first stage cement with 670 Sx. of Class POZ/C Cement + additives. Second stage cement with 950 Sx of Class "C". Estimated top of cement 2700'.

2. Pressure control Equipment:

A 13 3/8" 5000 PSI working pressure B.O.P. consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 6000'. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. BOP unit will be hydraulically operated. BOP will be nipped up on the 9 5/8" casing and will be operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling.

3. Proposed Mud Circulating System:

Depth 0-400'

Mud Wt: 8.4-8.6

Viscosity: 30-32

Fluid Loss: May lose Circ

Type: Mud Fresh water spud mud add paper to control seepage and high viscosity sweeps to clean hole.

Depth: 400' - 1800'

Mud Wt: 9.7 - 10.0

Viscosity: 28 - 29

Fluid Loss: May lose circ.

Type: Brine water. Add paper as needed to control seepage and add lime to control pH (9-10). Use high viscosity sweeps to clean hole.

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Depth: 1800' - 8300'

Mud Weight: 8.4 - 9.9

Viscosity: 28 - 29

Fluid Loss: NC

Type: Fresh water. Paper for seepage. Lime for pH (9 - 9.5)

Depth: 8300' - 9500'

Mud Wt: 8.45 - 8.9

Viscosity: 28 - 29

Fluid Loss: NC

Type: Cut brine. Caustic for pH control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.



Gruy Petroleum Management Co.

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January 18, 2006

Oil Conservation Division
District II Office
1301 W. Grand Ave.
Artesia, New Mexico 88210
Attn: Mr. Bryan Arrant

RECEIVED

JAN 24 2006

OCD-ARTESIA

Re: Statewide Rule 118
Hydrogen Sulfide Gas Contingency Plan
Proposed Buffalo Valley 8 State No. 1 Well

Dear Mr. Arrant:

In accordance with NMAC 19.15.3.118 C. (i) governing the determination of the hydrogen sulfide concentration in gaseous mixtures in each of its operations, Gruy Petroleum Management Co. does not anticipate that there will be enough H₂S from the surface to the Morrow/Atoka formations to meet the OCD's minimum requirements for the submission of a contingency plan for the drilling and completion of the following test(s):

Buffalo Valley 8 State No. 1
Sec 8-T15S-R28E
1085' FSL & 1165' FWL
Chaves Co., NM

If anything further is needed regarding this issue, or if you have any questions, please feel free to contact the undersigned at 972-443-6489.

Yours truly,

Zeno Farris
Manager, Operations Administration

1085' FSL & 1165' FWL
Sec 8-T15S-R28E
Buffalo Valley 8 State No. 1

for the drilling and completion of the following test(s).
In addition to the OCD's minimum requirements, the operator of a well shall have
a contingency plan for the drilling and completion of the following test(s).
The contingency plan shall include the following information:
1. A description of the well and the test(s) to be conducted.
2. A description of the equipment to be used for the test(s).
3. A description of the personnel to be involved in the test(s).
4. A description of the safety procedures to be followed during the test(s).
5. A description of the contingency plan for the test(s).